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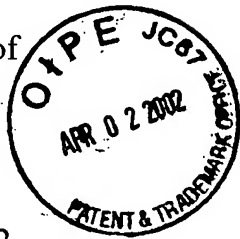
In re Patent Application of

O'MAHONY ET AL

Serial No. 10/073,855

Filed: February 14, 2002

For: METHOD AND APPARATUS FOR AN
EXTRACORPOREAL TREATMENT DEVICE
TO CONTROL BLOOD WITHDRAWAL AND
INFUSION



Confirmation No. 6324

Allowed: N/A

Atty Ref.: 3659-40

Group: 3738

Examiner:

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April 2, 2002

Assistant Commissioner for Patents
Washington, DC 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

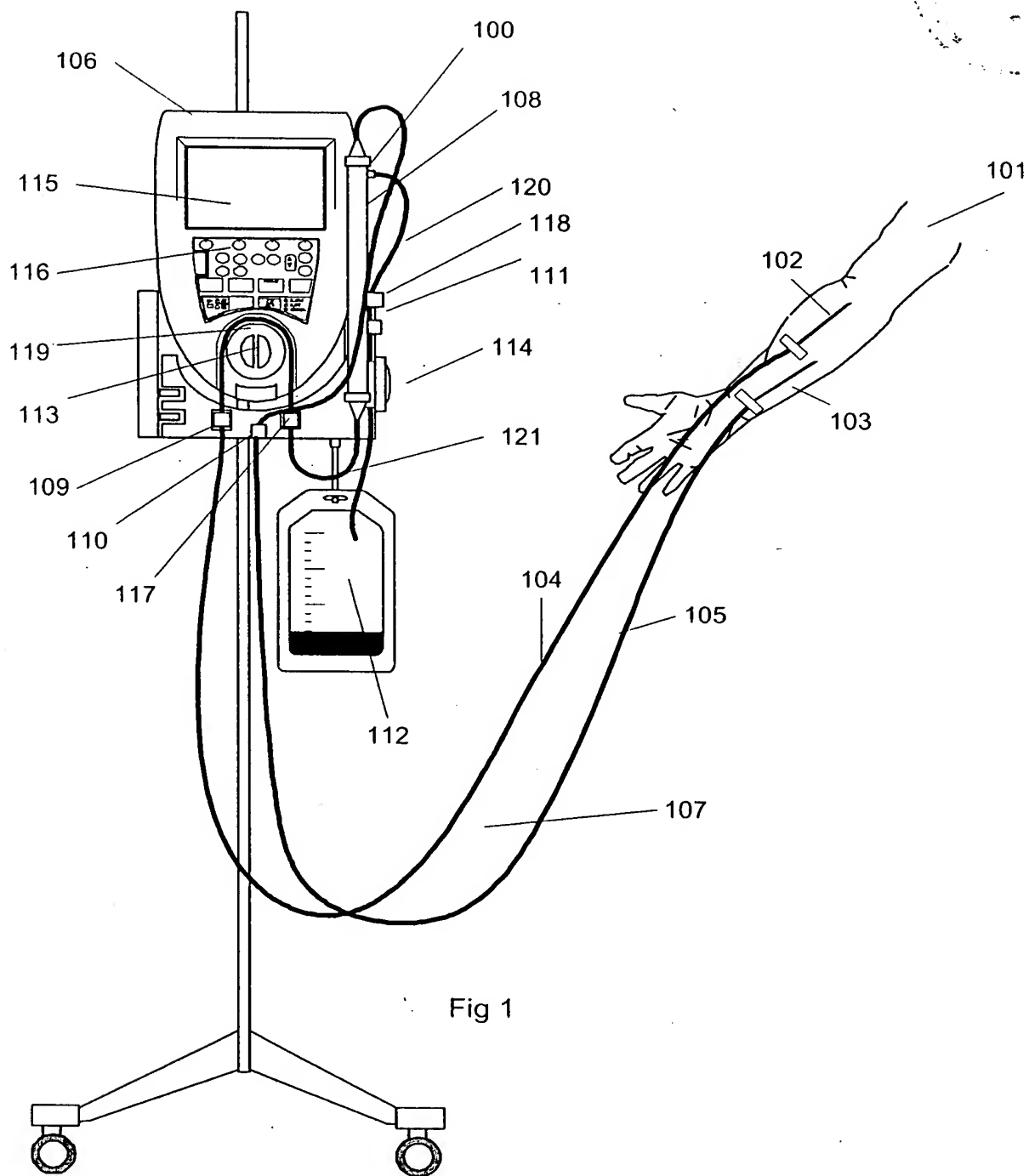
Enclosed herewith are eleven sheets of formal, inked drawings for the above-identified application.

Respectfully submitted,

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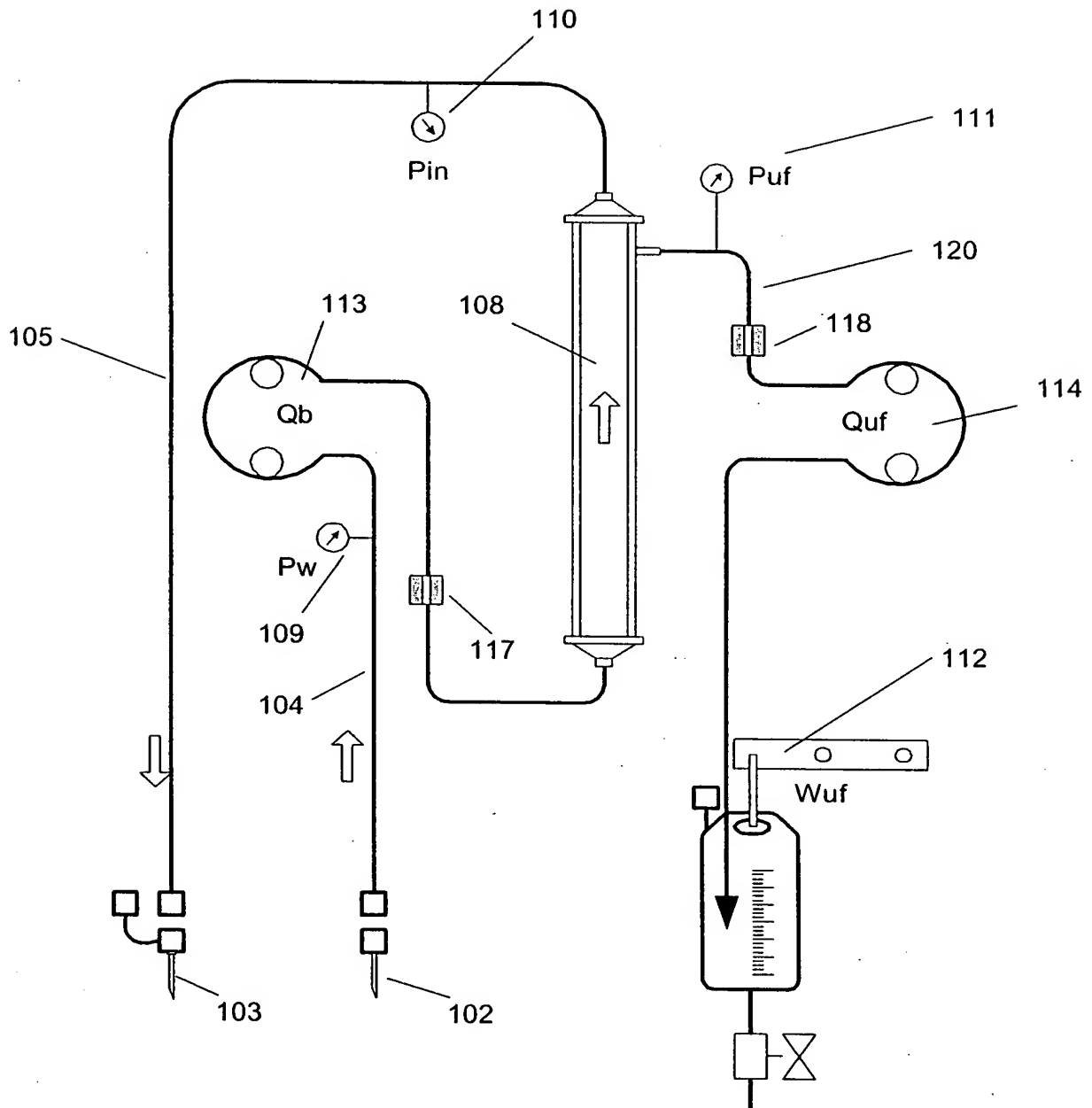


Fig. 2

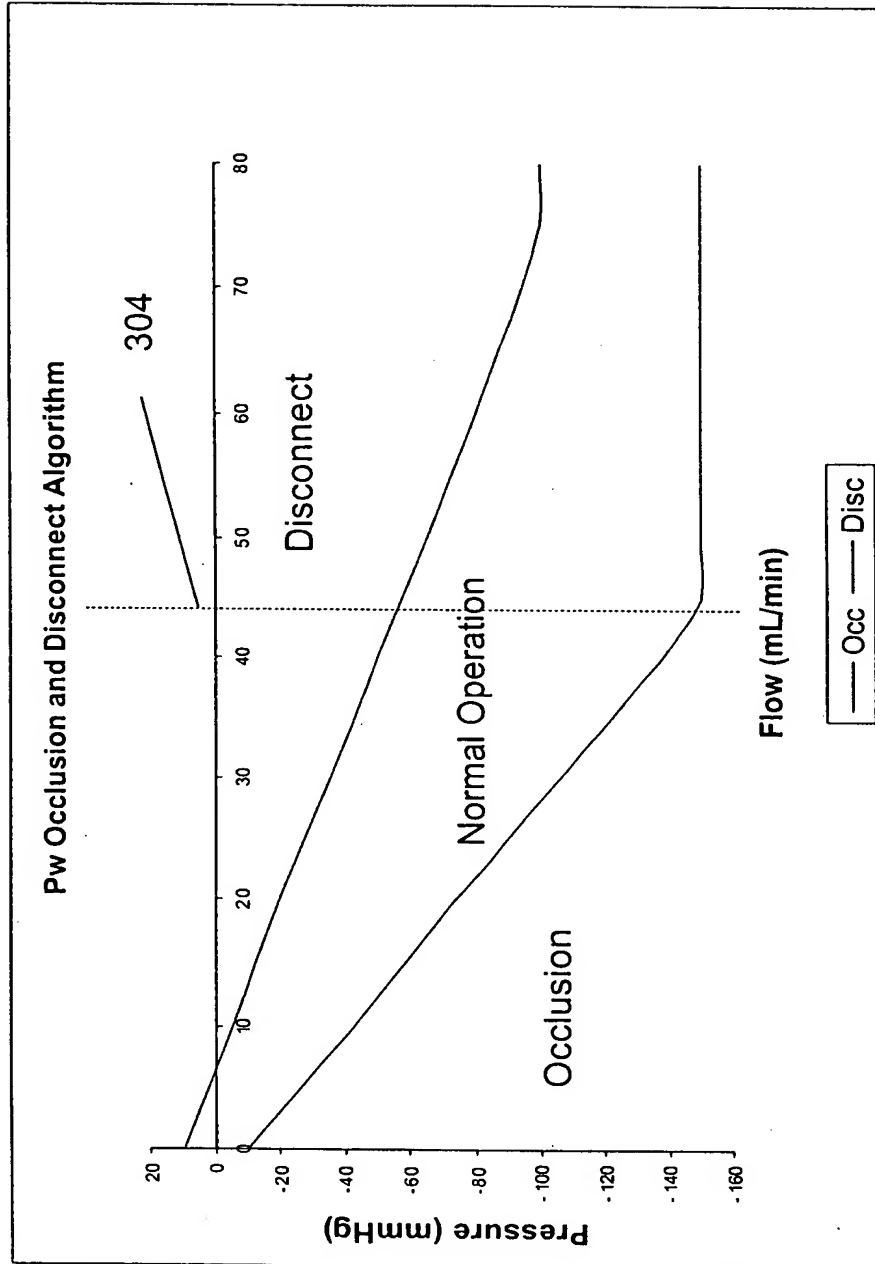
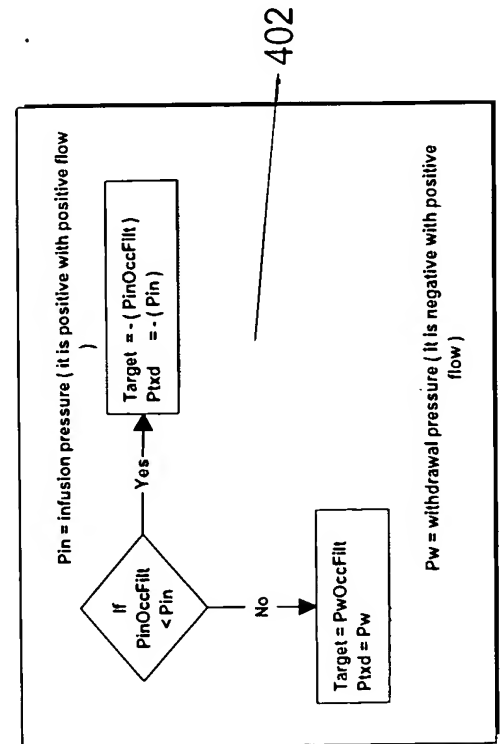
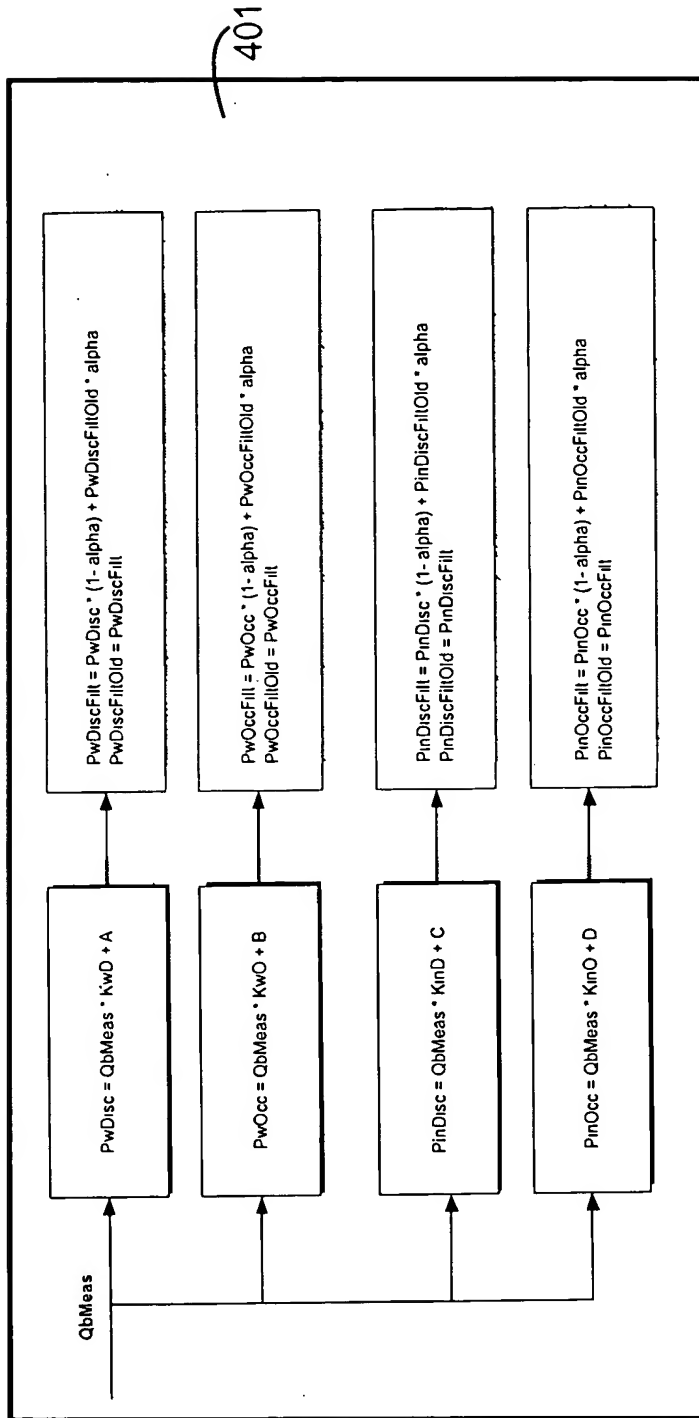


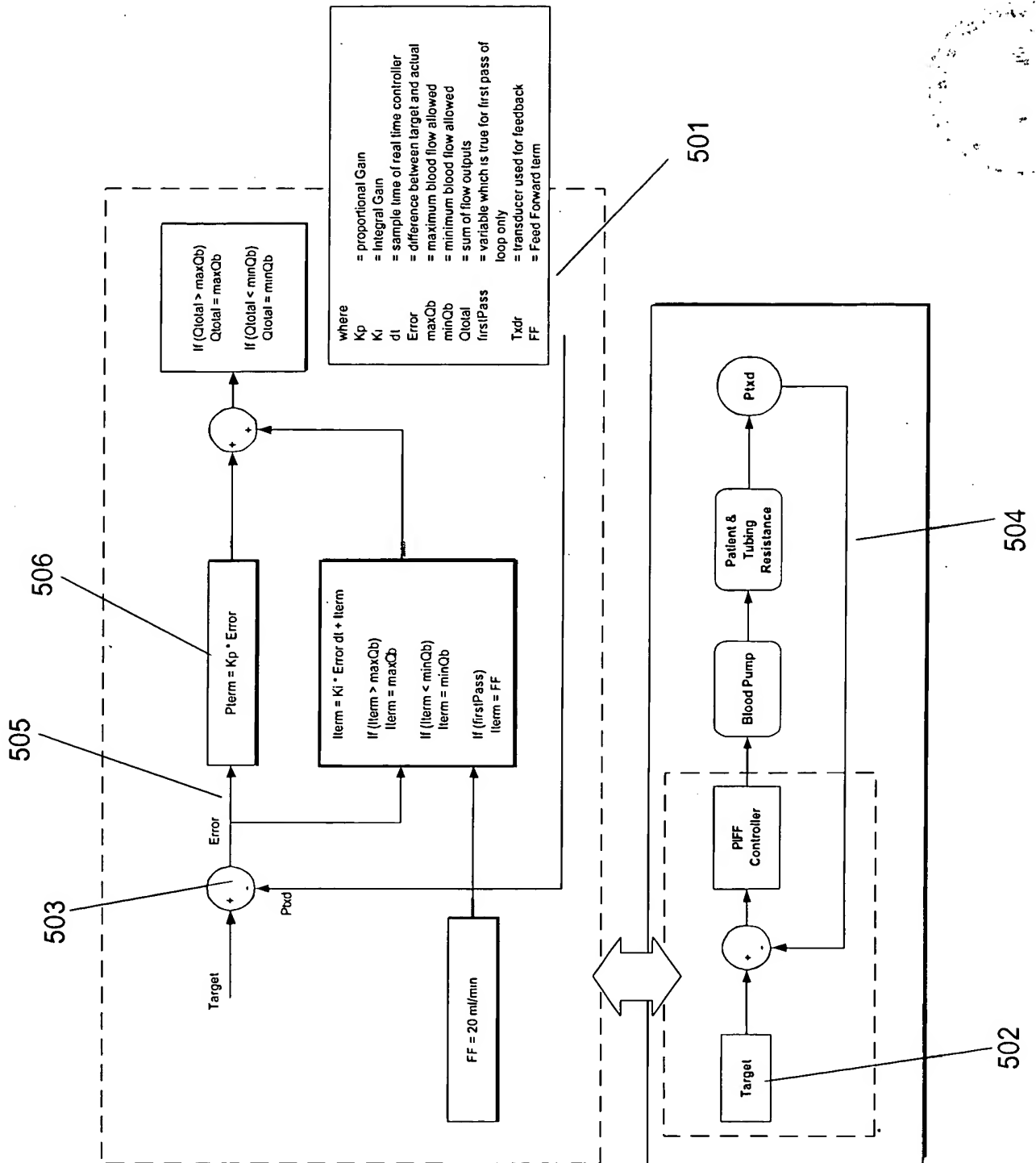
Fig. 3



where :

- $PwDisc$ = Withdrawal Disconnect Pressure
- $PwDiscFilt$ = Filtered Withdrawal Disconnect Pressure
- $PinDisc$ = Infusion Disconnect Pressure
- $PinDiscFilt$ = Filtered Infusion Disconnect Pressure
- $PwOcc$ = Withdrawal Occlusion Pressure
- $PwOccFilt$ = Filtered Withdrawal Occlusion Pressure
- $PinOcc$ = Infusion Occlusion Pressure
- $PinOccFilt$ = Filtered Infusion Occlusion Pressure
- $QbMeas$ = Measured Blood Flow using encoder
- α = Alpha constant for low pass filter
- KwD = Slope of Withdrawal Disconnect
- A = Offset of Withdrawal Disconnect
- KwO = Slope of Withdrawal Occlusion
- B = Offset of Withdrawal Occlusion
- $KinD$ = Slope of Infusion Disconnect
- C = Offset of Infusion Disconnect
- $KinO$ = Slope of Infusion Occlusion
- D = Offset of Infusion Occlusion
- $Target$ = Target Pressure

Fig. 4



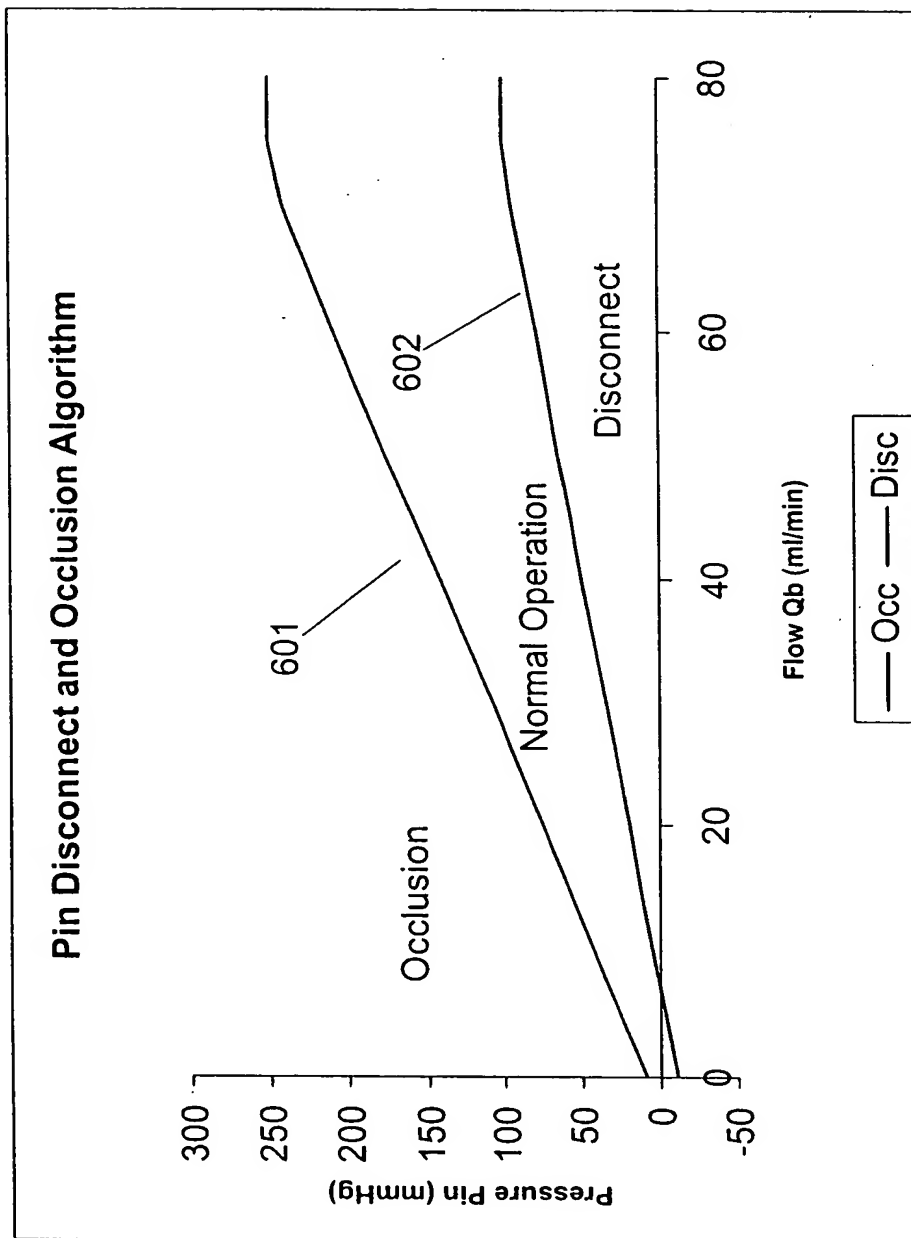


Fig. 6

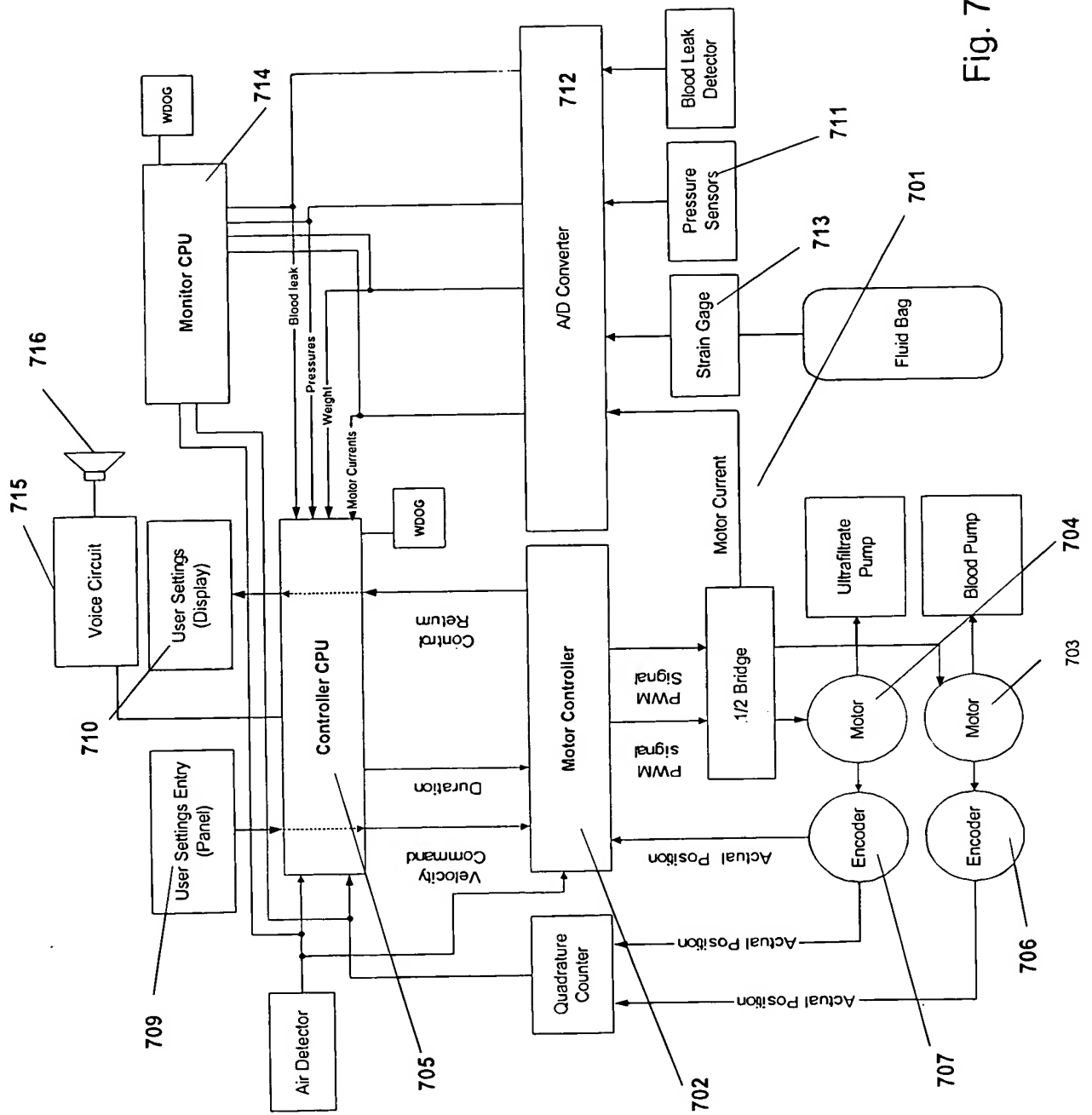


Fig. 7

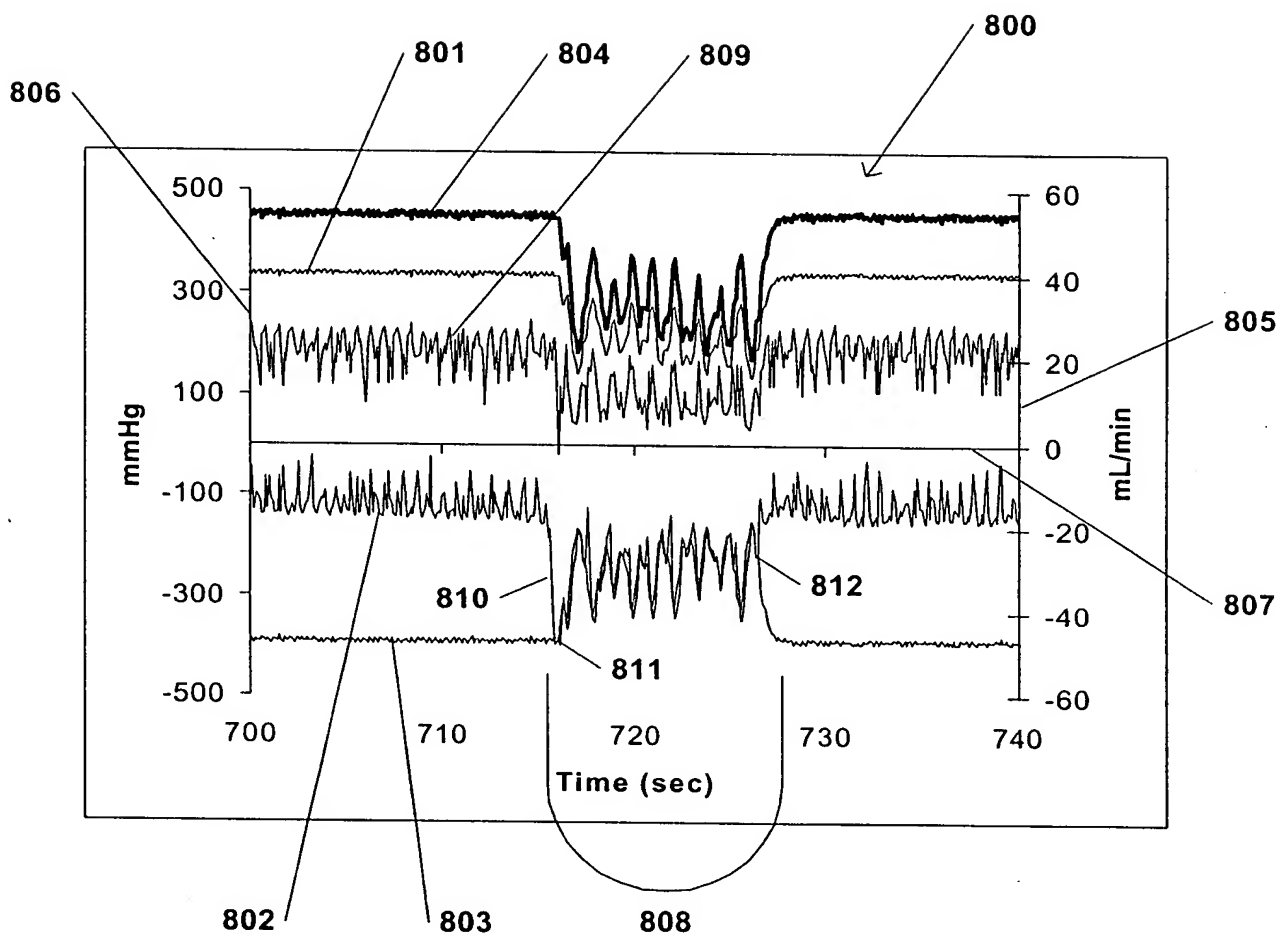


Fig. 8

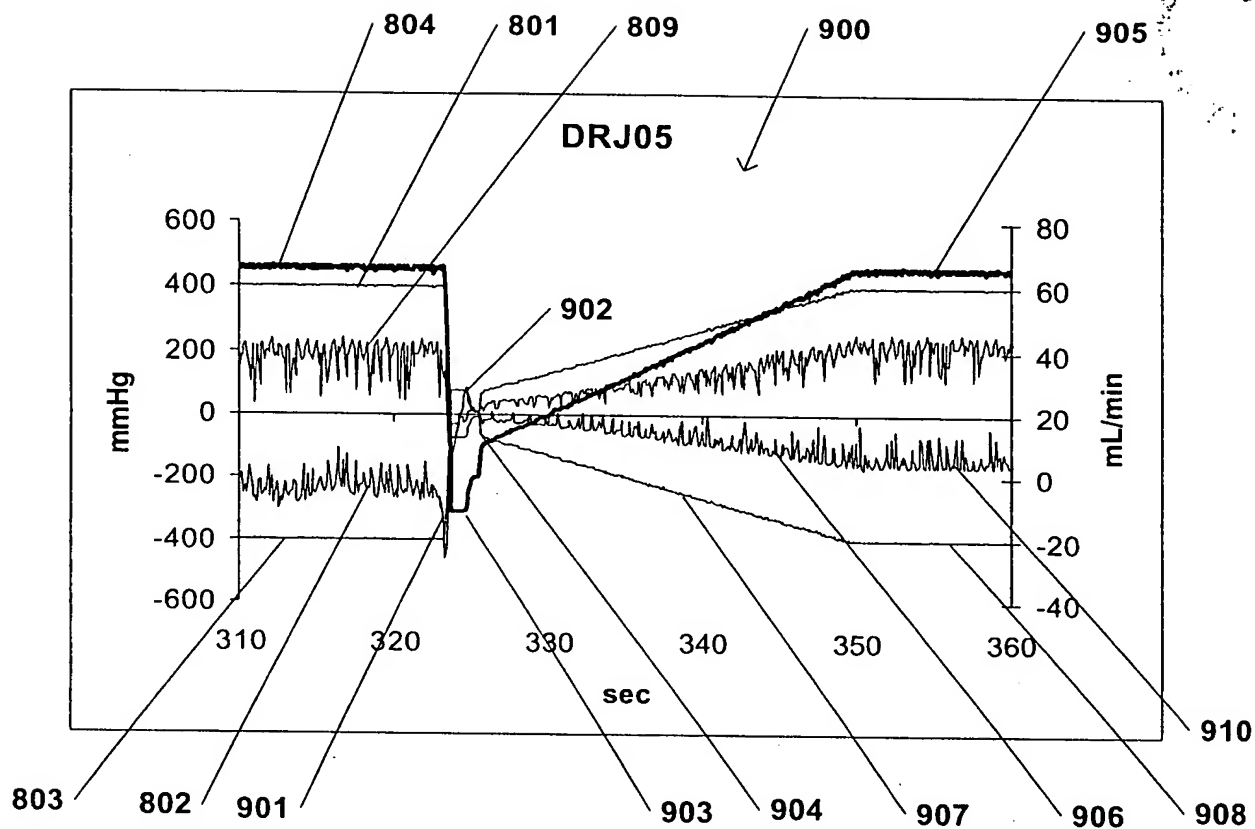


Fig. 9

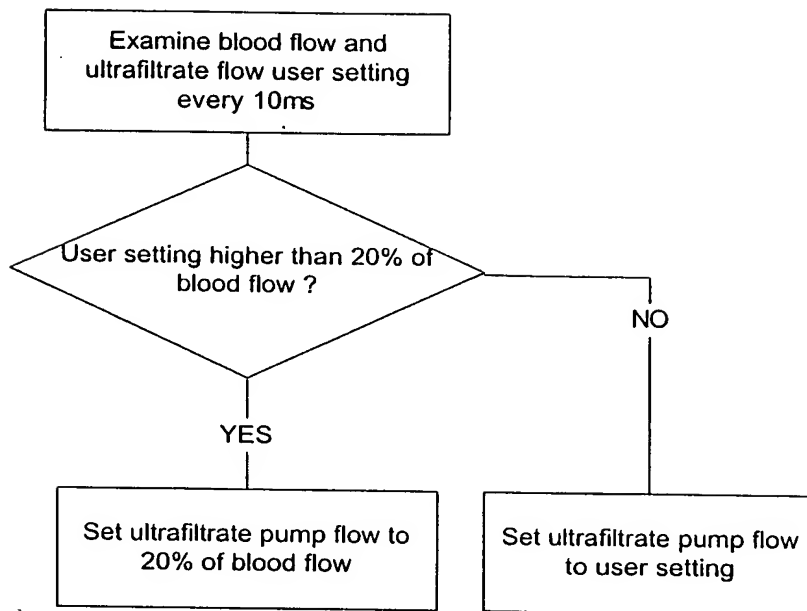


Fig. 10

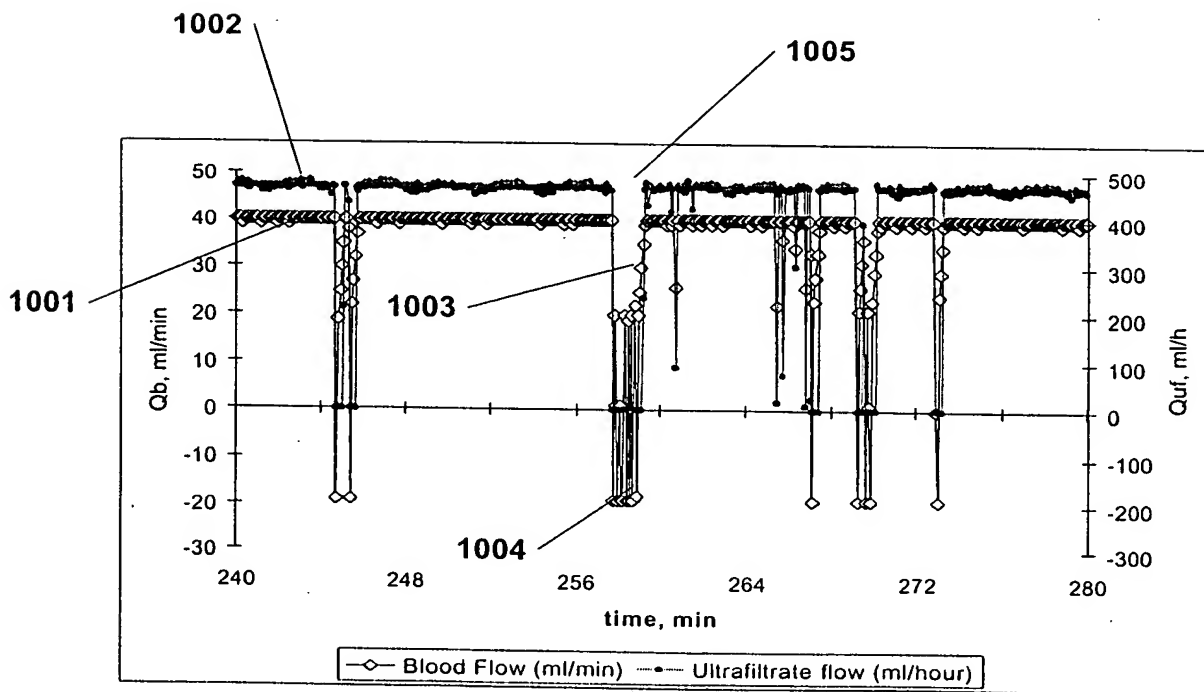


Fig. 10

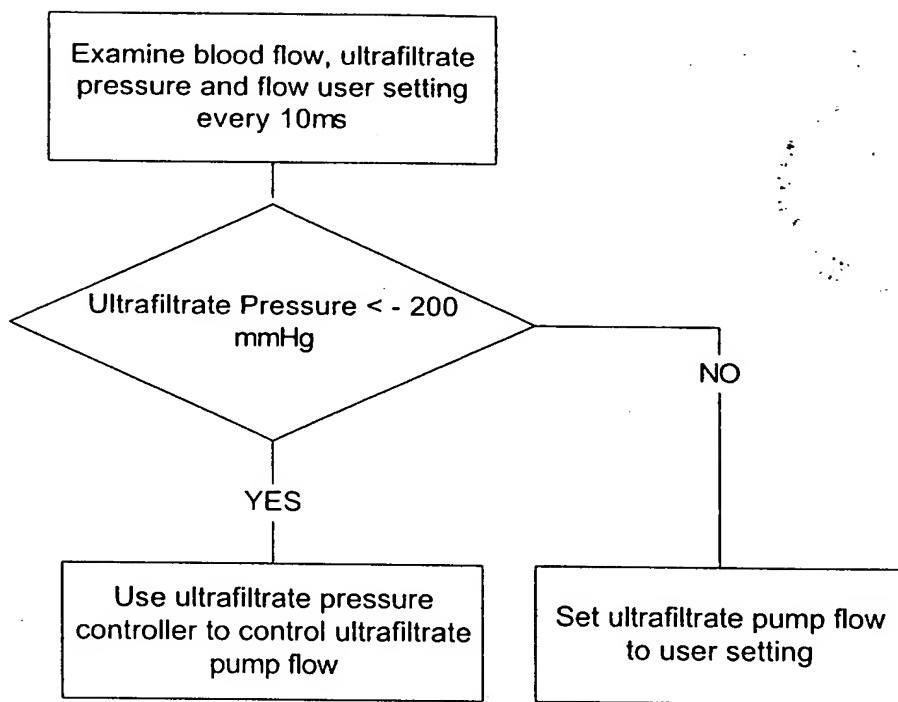


Fig. 12

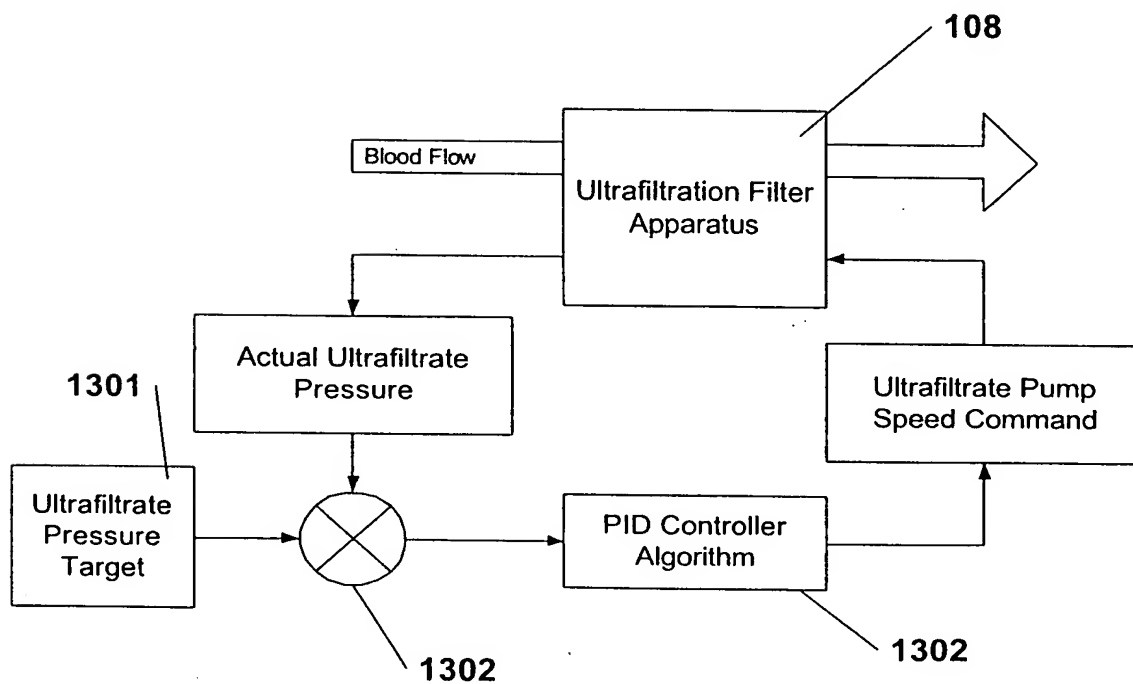


Fig. 13